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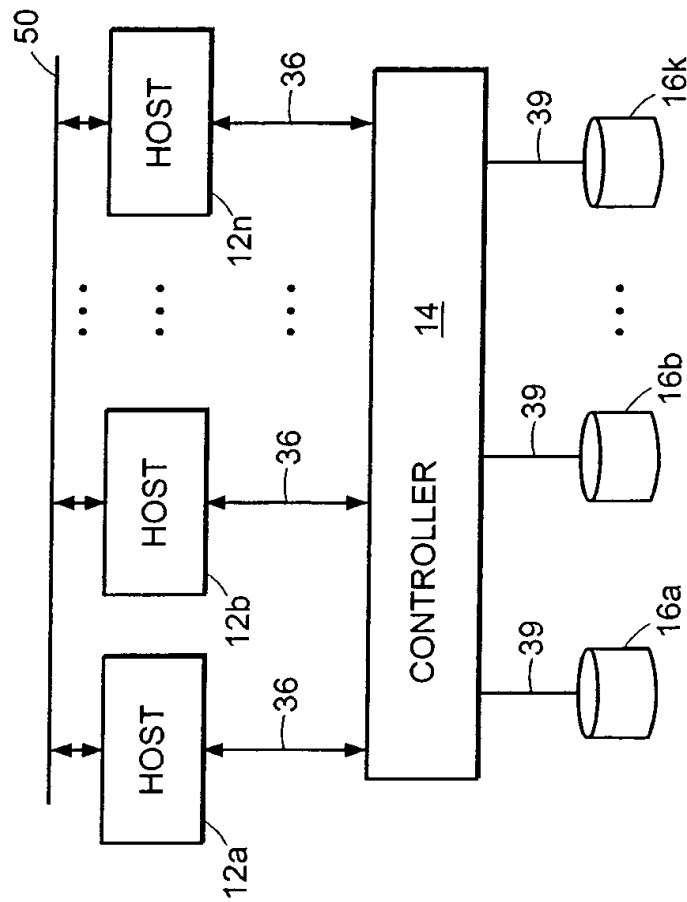


FIG. 1

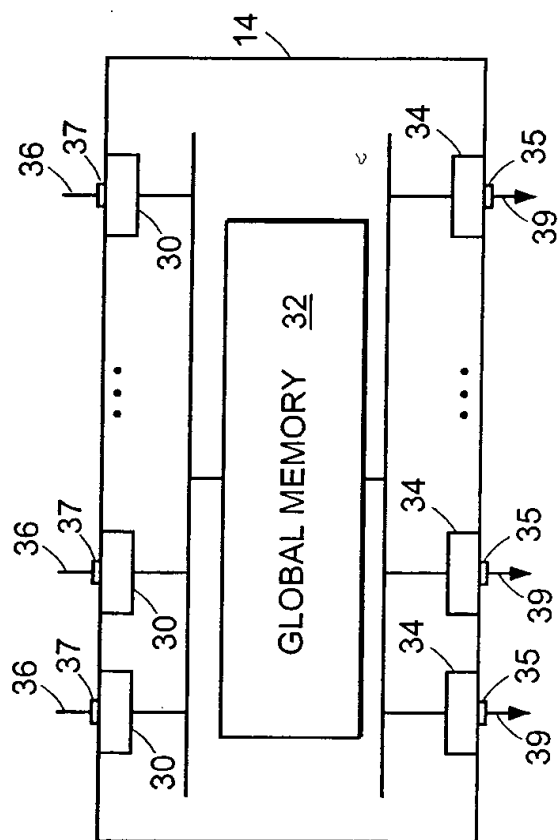


FIG. 2

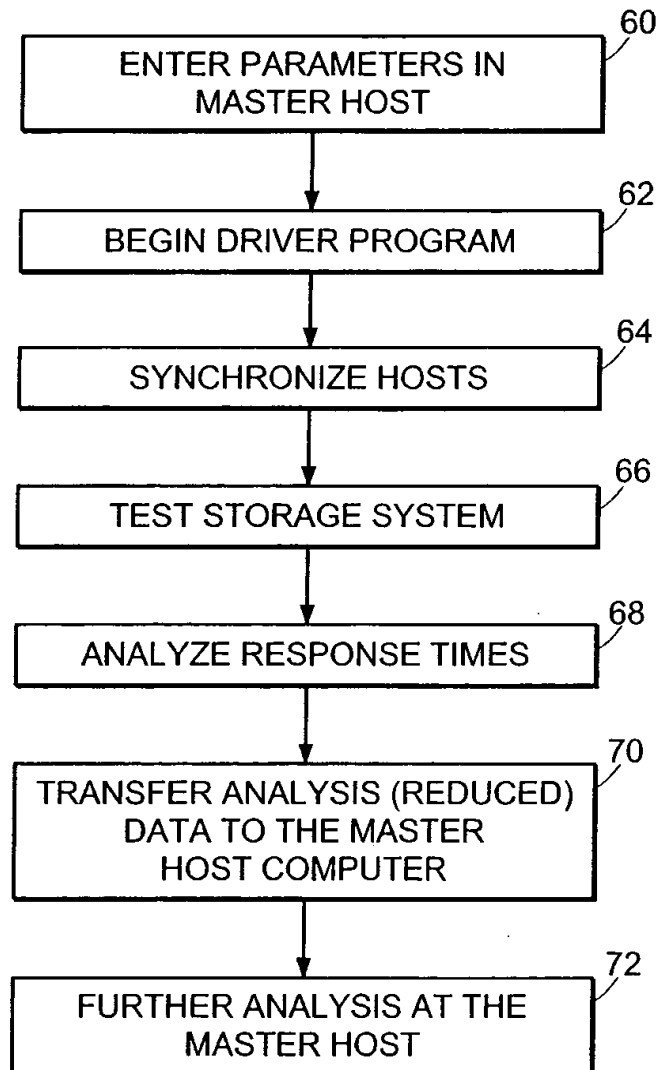


FIG. 3

FIG. 4A
FIG. 4B

FIG. 4

REQUIRED	NUMBER OF LOGICAL DISKS
	NUMBER OF "CHILD" PROCESSES TO START
	NUMBER OF CAPTURE RESPONSE TIMES
	NUMBER OF RESPONSE TIMES
	BUFFER SIZE
	OFFSET SIZE
	MAXIMUM RANGE
	TIME OF TEST
	READ/WRITE SIZE
	READ/WRITE MIX

FIG. 4A





OPTIONAL	ID OF DEVICES BEING TESTED
	ID OF MASTER & CLIENT HOSTS
	I/O TYPE (SEQUENTIAL OR RANDOM)
	NUMBER OF I/O OPERATIONS PERFORMED TO CORRECT OFFSET
	DISPLACEMENT FROM OFFSET
	DELAY BETWEEN COMMANDS
	INITIAL BYTE OFFSET
	NUMBER OF SEEKS FOR RANDOM I/O
	DATA REDUCTION METHOD
	ICDA PERCENT HIT RATE

FIG. 4B

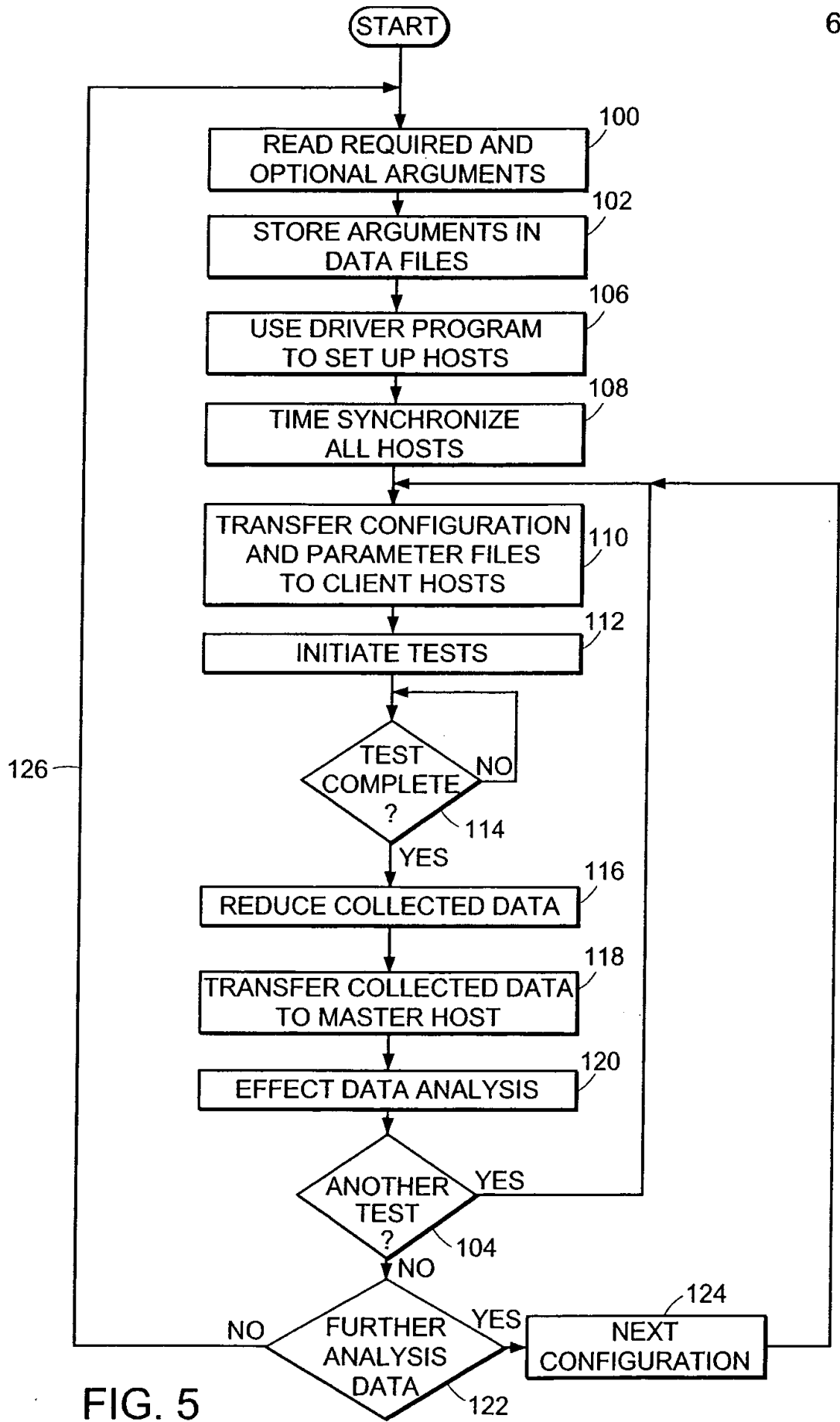


FIG. 5

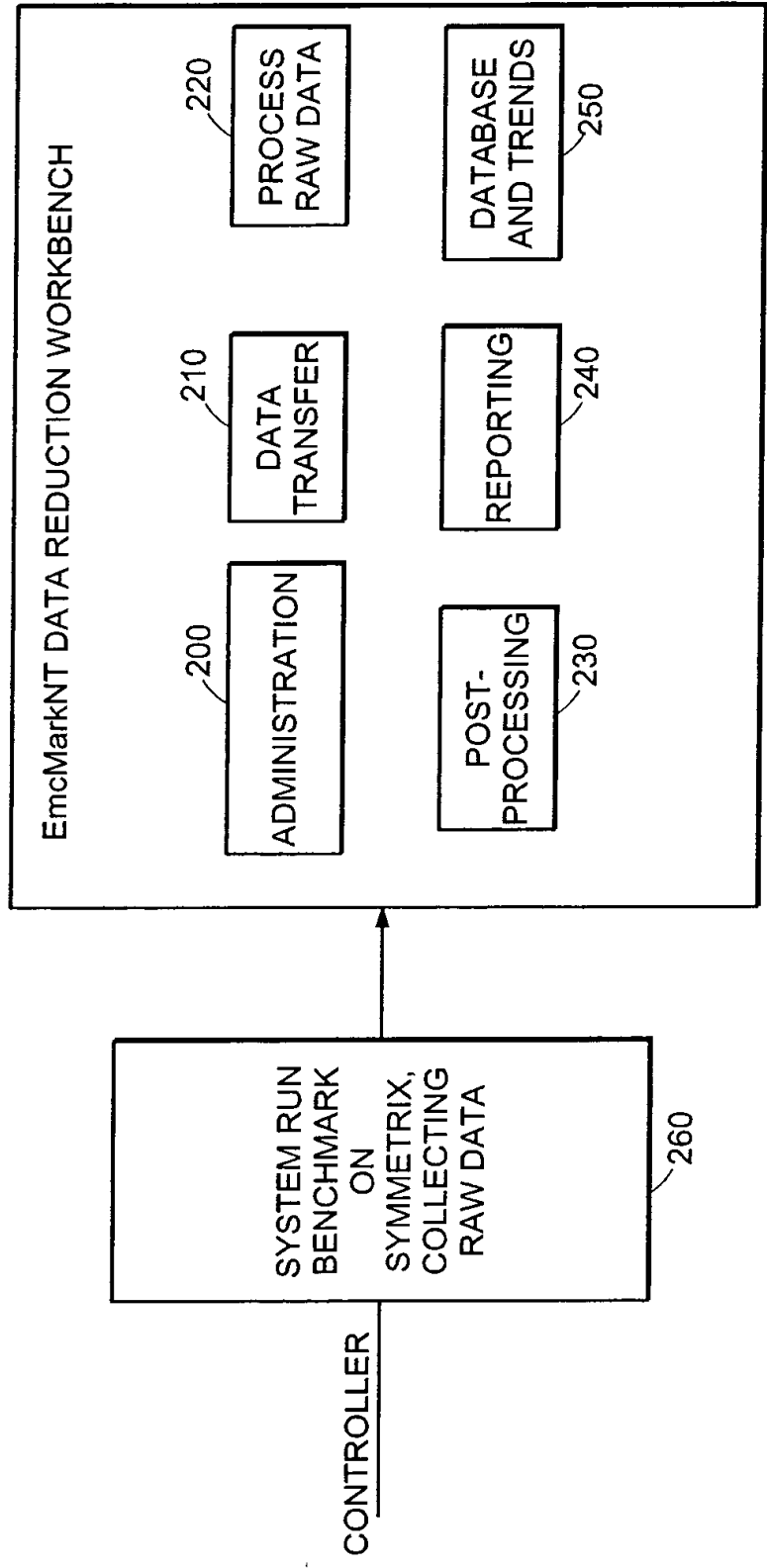


FIG. 6

EmcMarkNT DATA REDUCTION WORKBENCH FLOW

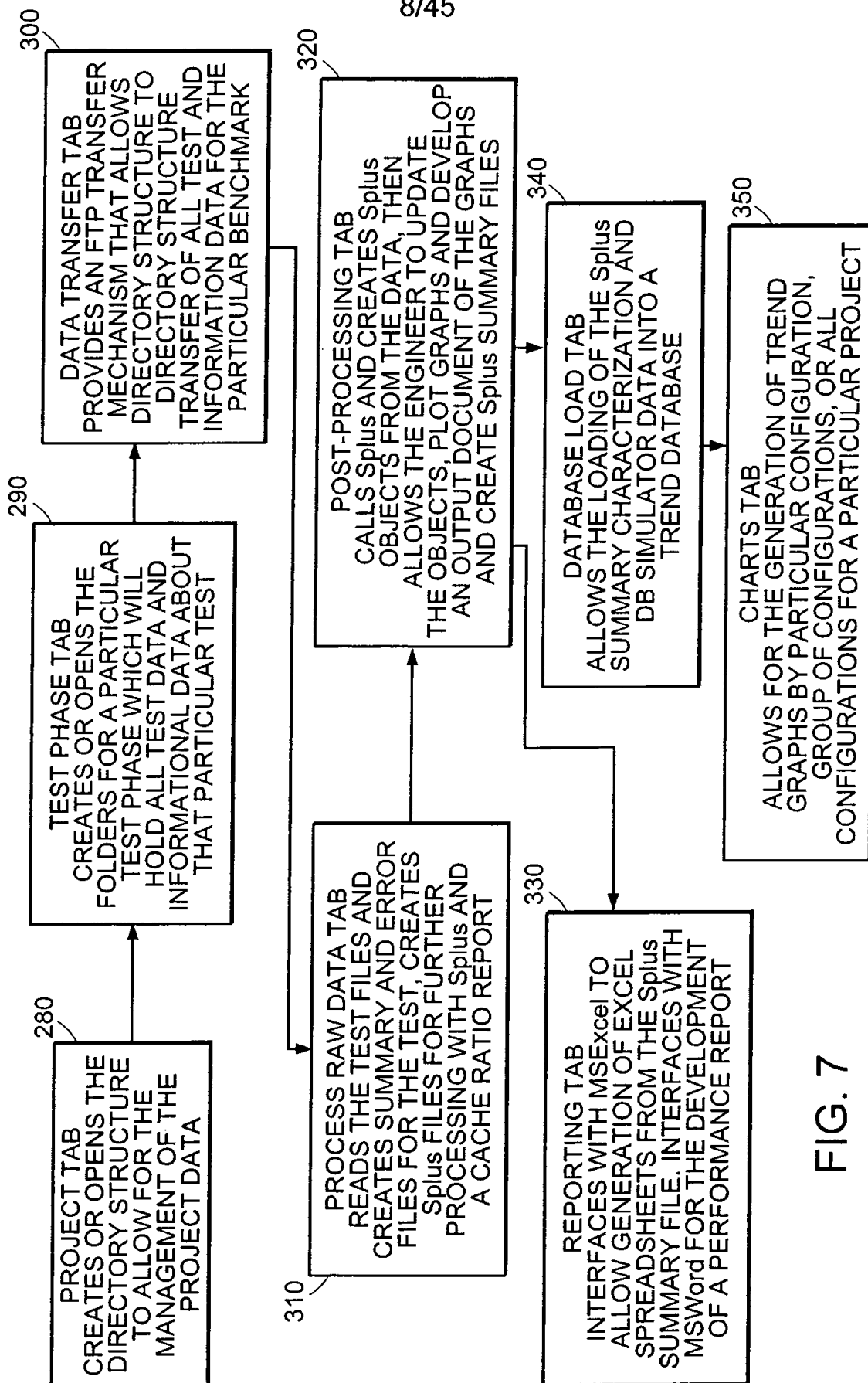


FIG. 7



IOsps AND MBps FOR RANDOM DELAYED FAST WRITE - REQ SIZE 512

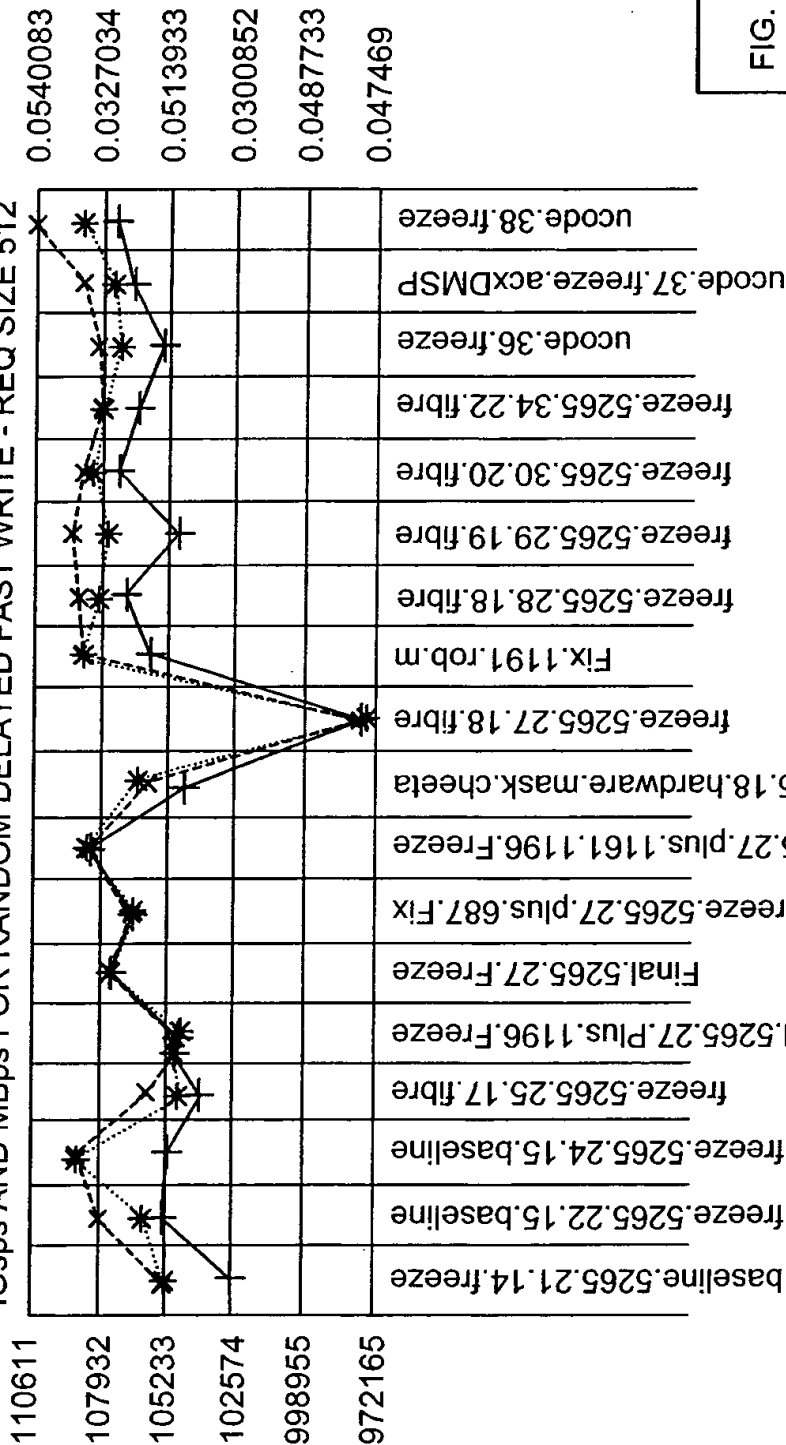


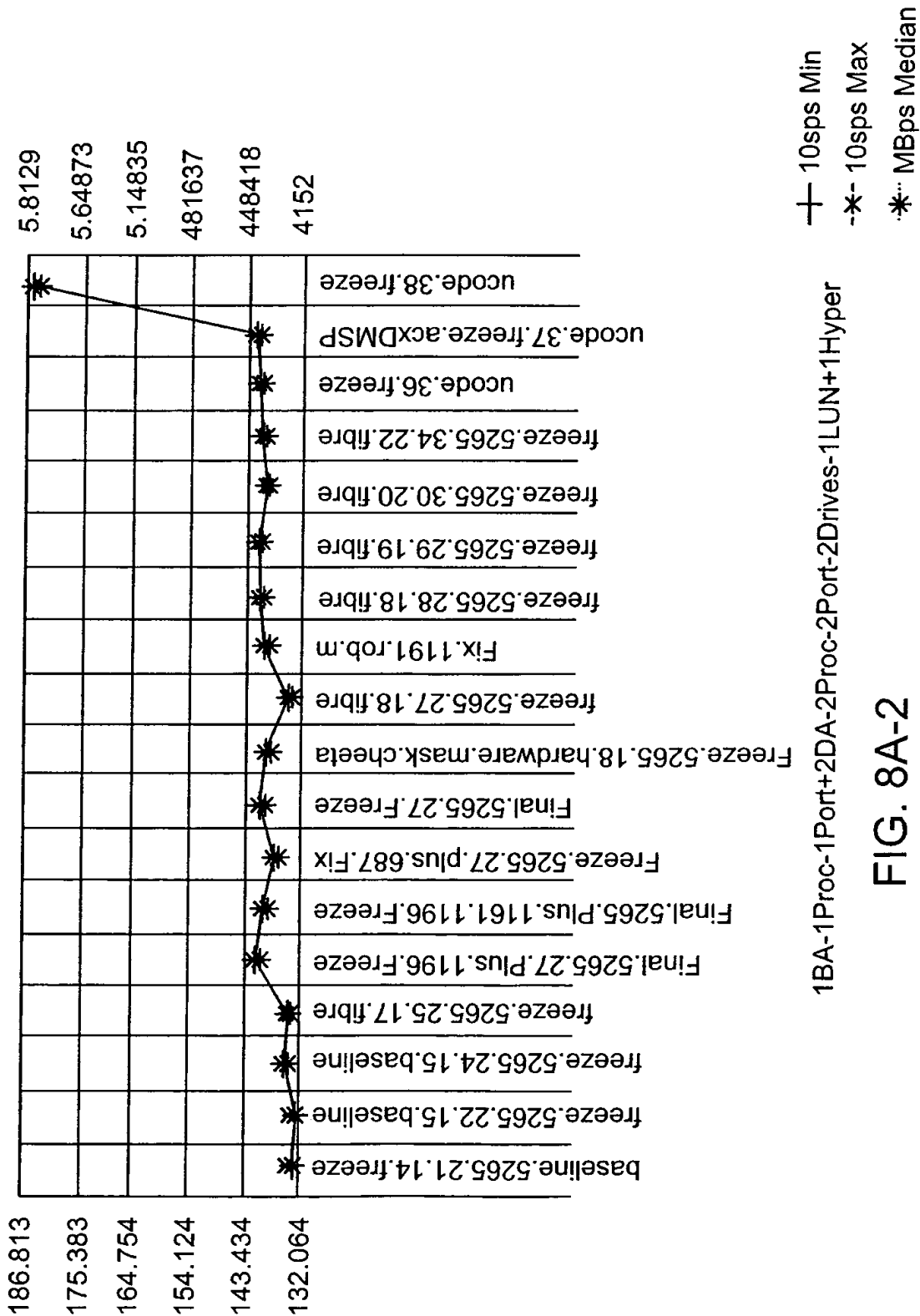
FIG. 8A-1	FIG. 8A-2
FIG. 8A-3	FIG. 8A-4

FIG. 8A

1BA-1Proc-1Port+2DA-2Proc-2Port-2Drives-1LUN+1Hyper
+ 10sps Min
- * - 10sps Max
* MBps Median

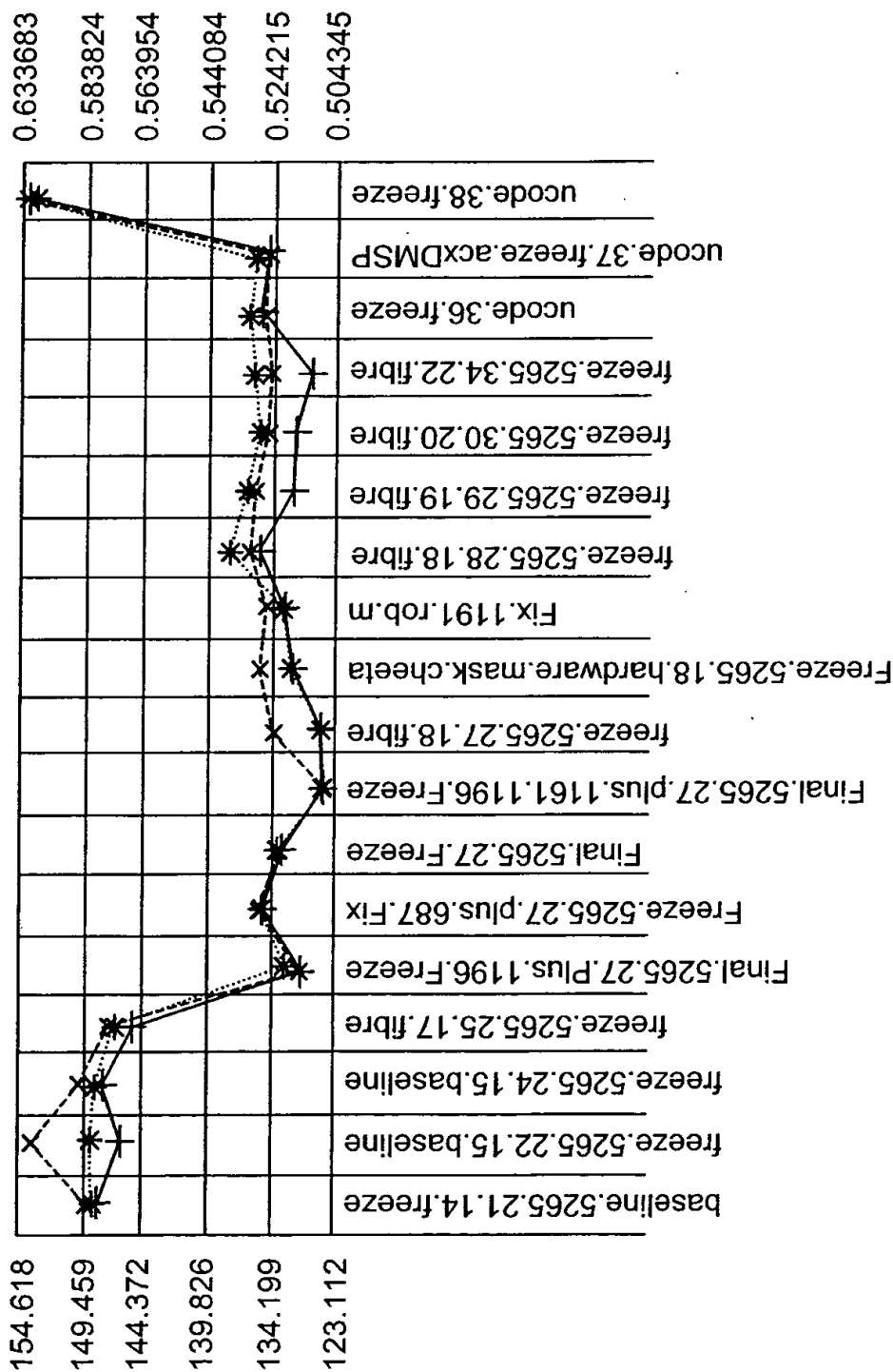
FIG. 8A-1

IOps AND MBps FOR RANDOM DELAYED FAST WRITE - REQ SIZE 32768





IOsps AND MBps FOR RANDOM DELAYED FAST WRITE - REQ SIZE 4896



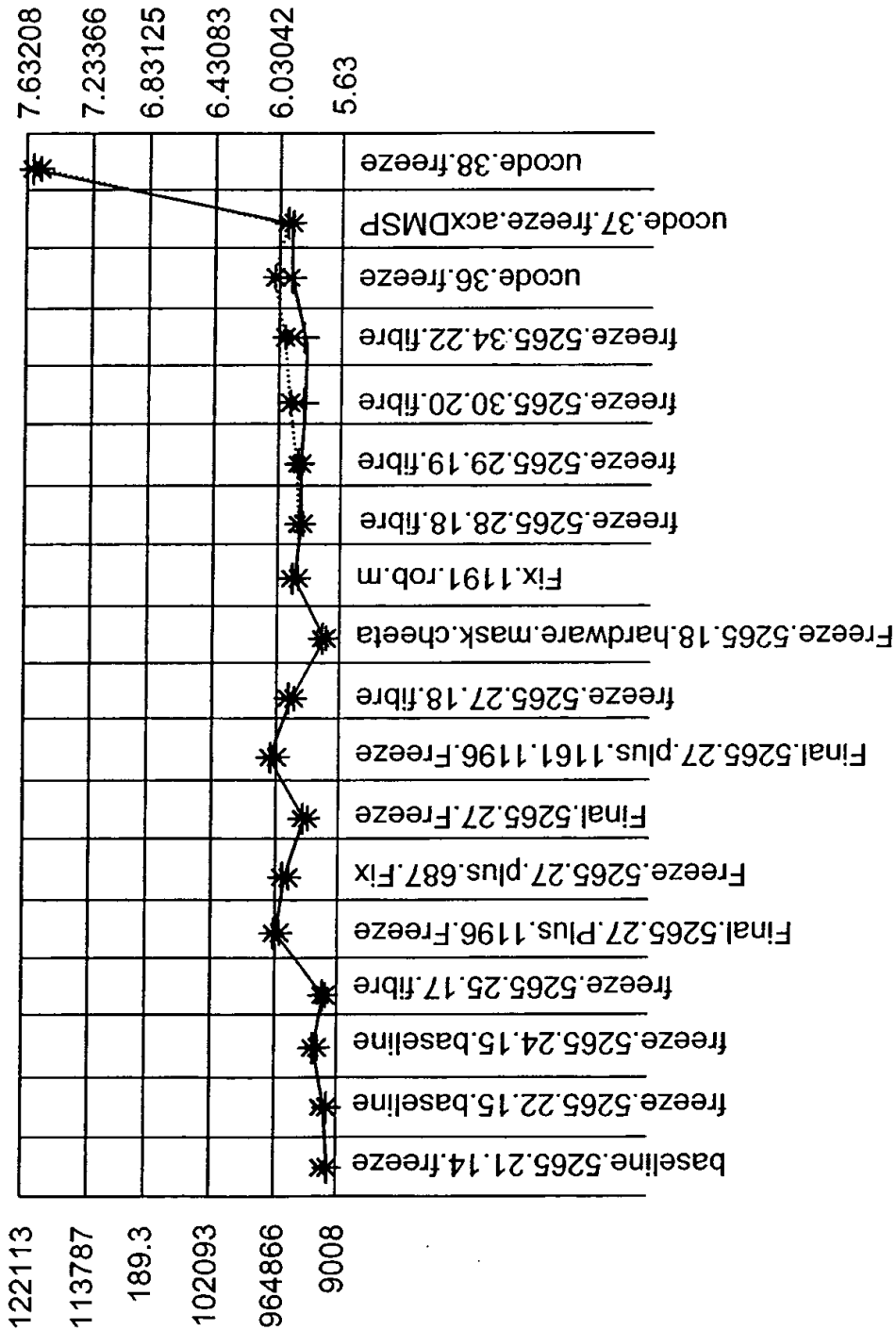
1BA-1Proc-1Port+2DA-2Proc-2Port-2Drives-1LUN+1Hyper

FIG. 8A-3

+ 10sps Min
- * - 10sps Max
* MBps Median



IOsps AND MBps FOR RANDOM DELAYED FAST WRITE - REQ SIZE 65536



1BA-1Proc-1Port+2DA-2Proc-2Port-2Drives-1LUN+1Hyper

FIG. 8A-4

+ 10sps Min
* 10sps Max
* MBps Median



IOps AND MBps FOR RANDOM DELAYED FAST WRITE - REQ SIZE 512

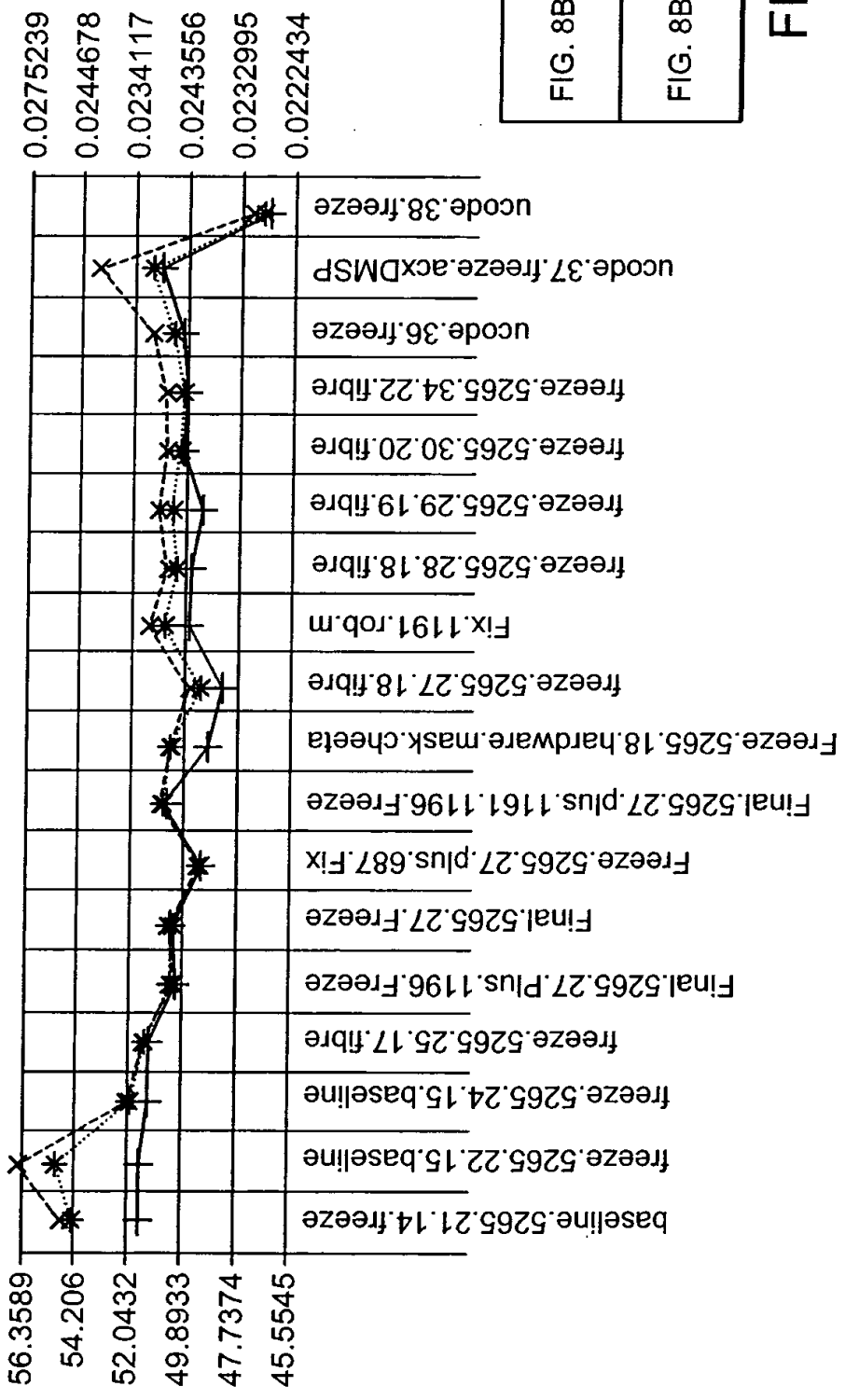


FIG. 8B-1	FIG. 8B-2
FIG. 8B-3	FIG. 8B-4

FIG. 8B

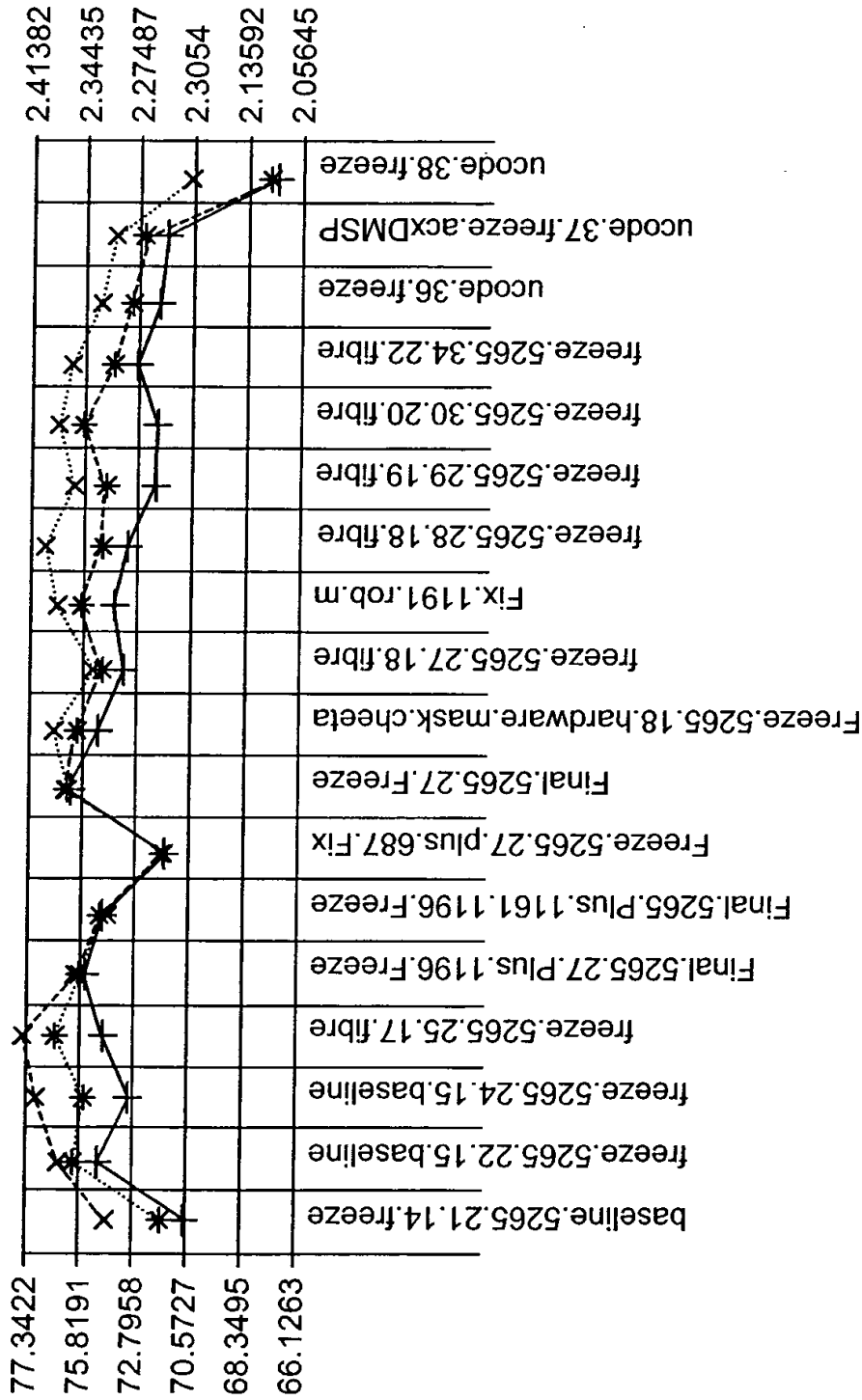
- + 10sps Min
- * 10sps Max
- * MBps Median

BA-4BAProc-4BAPort+4DA-2DAProc-2DAPort-2Drives-2Lun+4Hyper-4

FIG. 8B-1



IOps AND MBps FOR RANDOM DELAYED FAST WRITE - REQ SIZE 32768

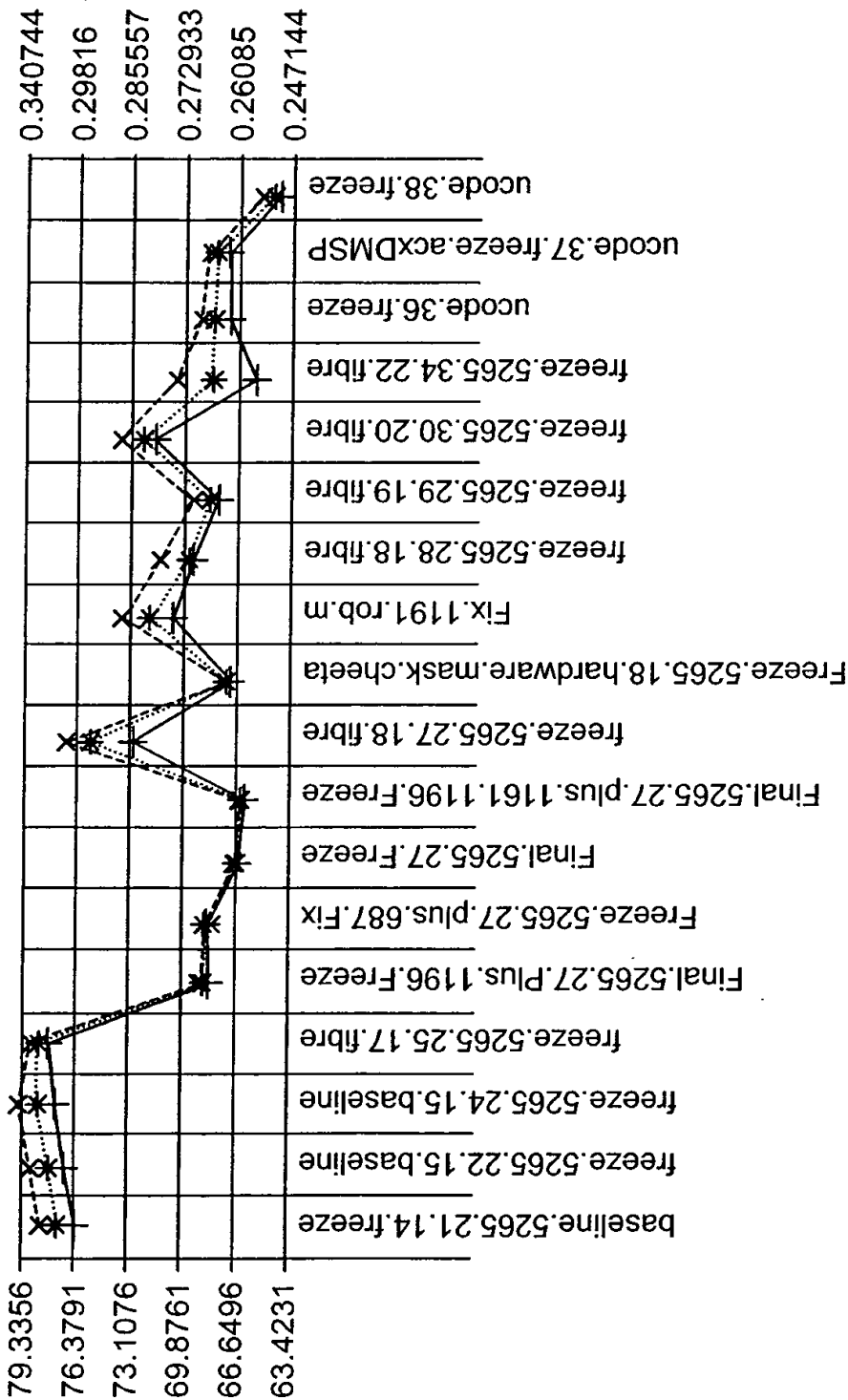


+ 10sps Min
- * - 10sps Max
*... MBps Median

BA-4BAProc-4BAPort+4DA-2DAProc-2DAPort-2Drives-2Lun+4Hyper-4

FIG. 8B-2

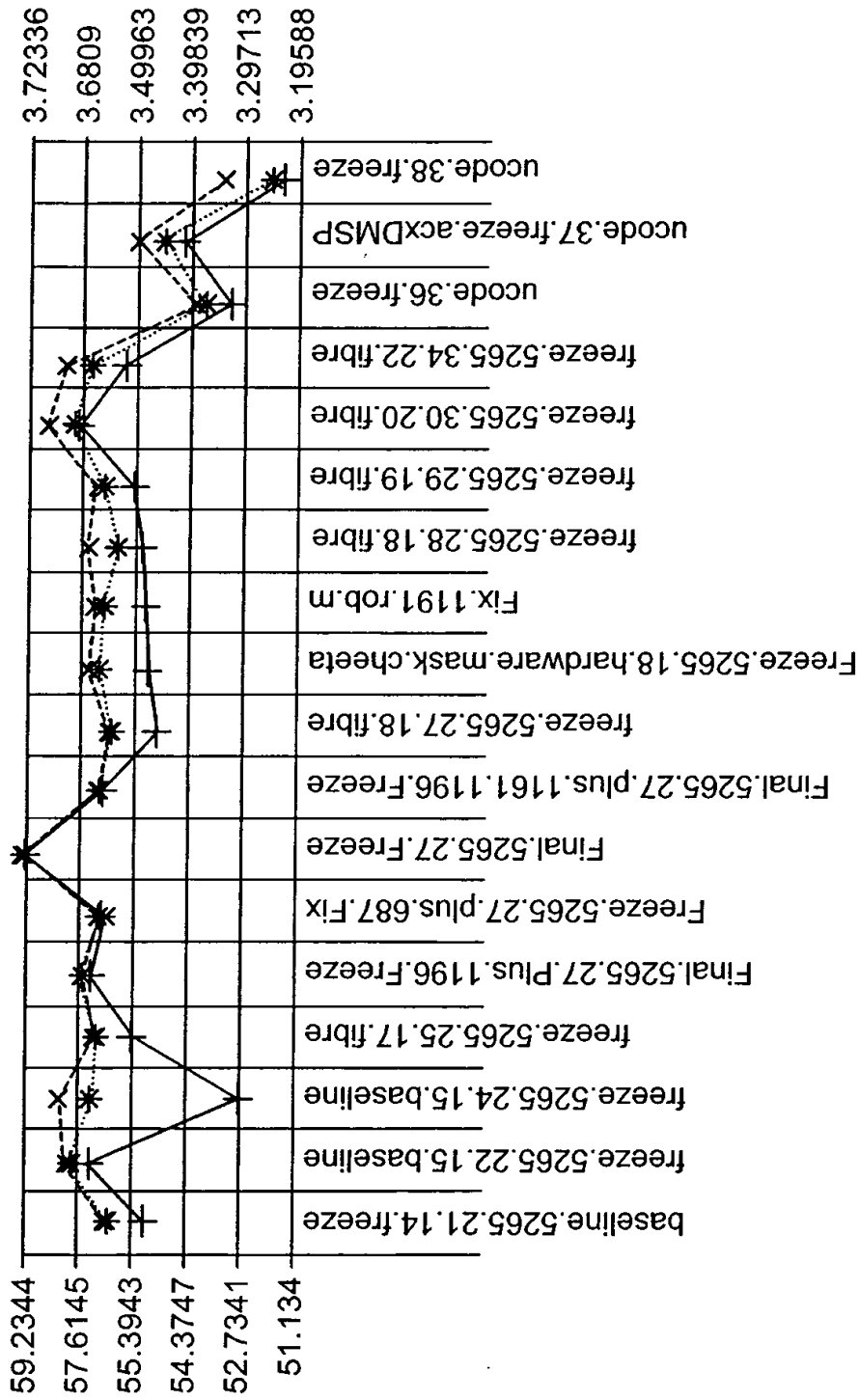
IOps AND MBps FOR RANDOM DELAYED FAST WRITE - REQ SIZE 4096



BA-4BAProc-4BAPort+4DA-2DAProc-2DAPort-2Drives-2Lun+4Hyper-4
 + 10sps Min
 * 10sps Max
 * MBps Median
FIG. 8B-3



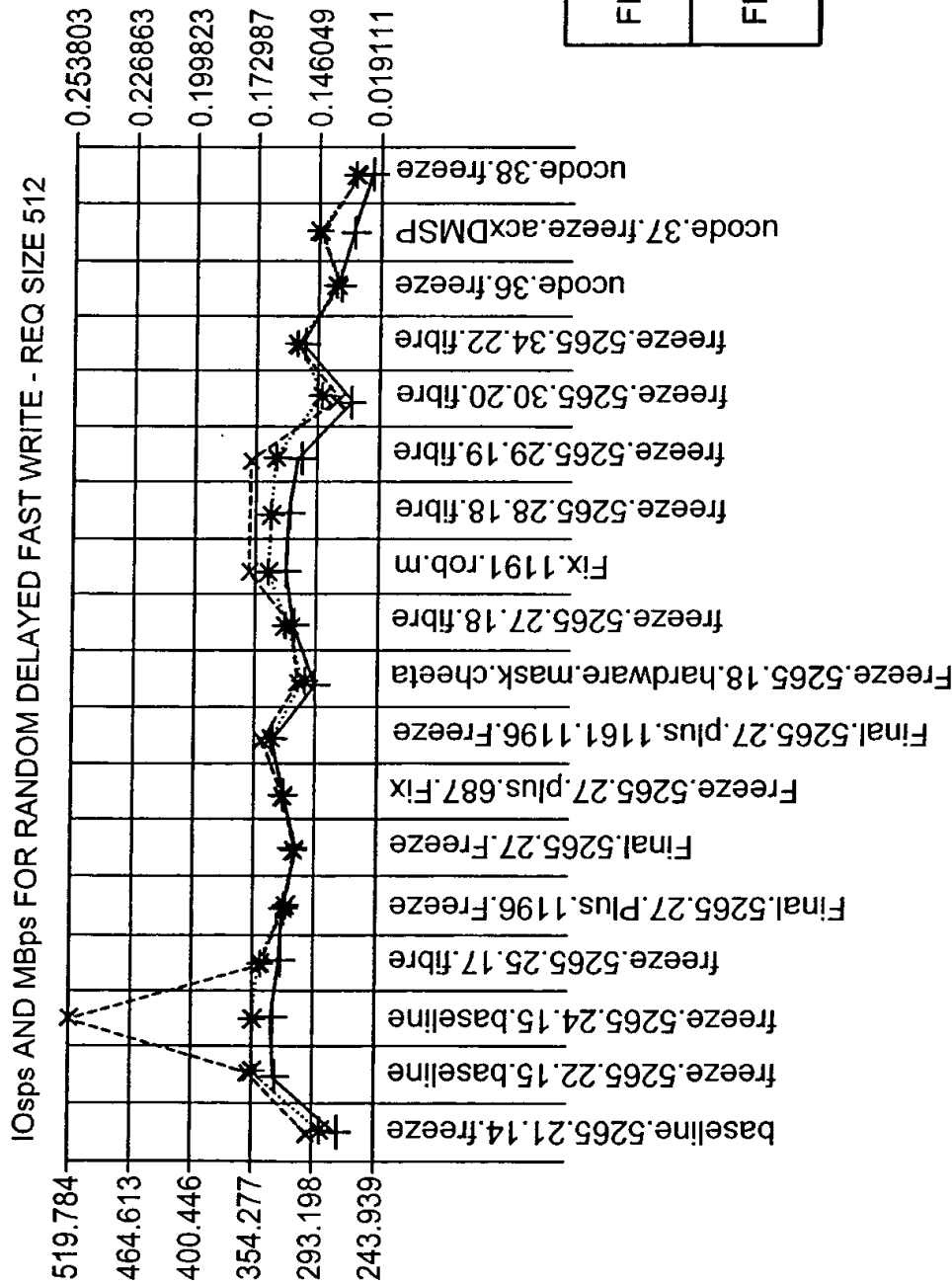
IOps AND MBps FOR RANDOM DELAYED FAST WRITE - REQ SIZE 65536



+ 10sps Min
-x- 10sps Max
* MBps Median

BA-4BAProc-4BAPort+4DA-2DAProc-2DAPort-2Drives-2Lun+4Hyper-4

FIG. 8B-4



BA-4BAProc-8BAPort-8DA-2DAProc-2DAPort-2Drives-24Lun+4Hyper-4

FIG. 8C-1

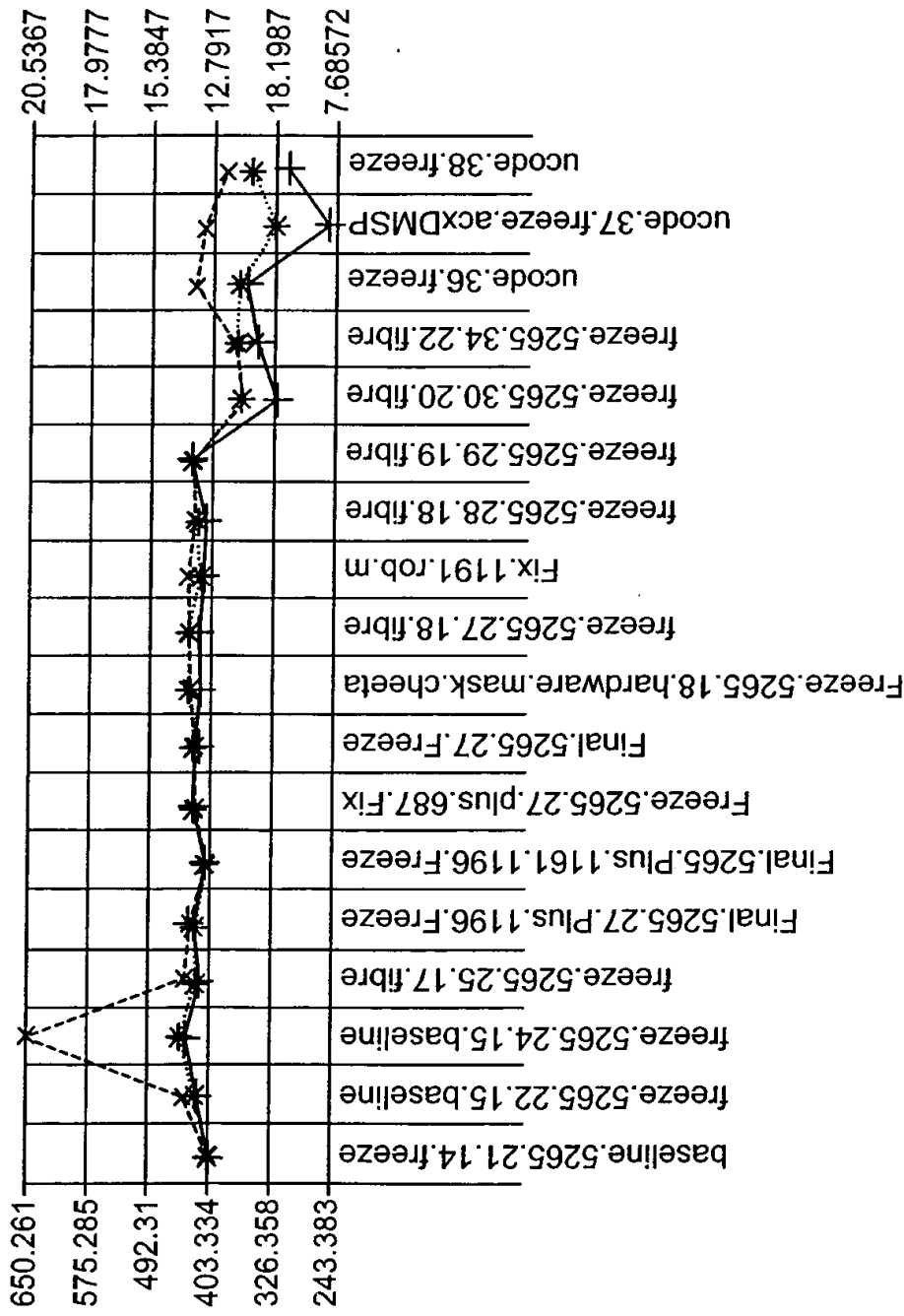
FIG. 8C

+ 10sps Min
- * - 10sps Max
*... MBps Median

FIG. 8C-1	FIG. 8C-2
FIG. 8C-3	FIG. 8C-4



IOsps AND MBps FOR RANDOM DELAYED FAST WRITE - REQ SIZE 32768



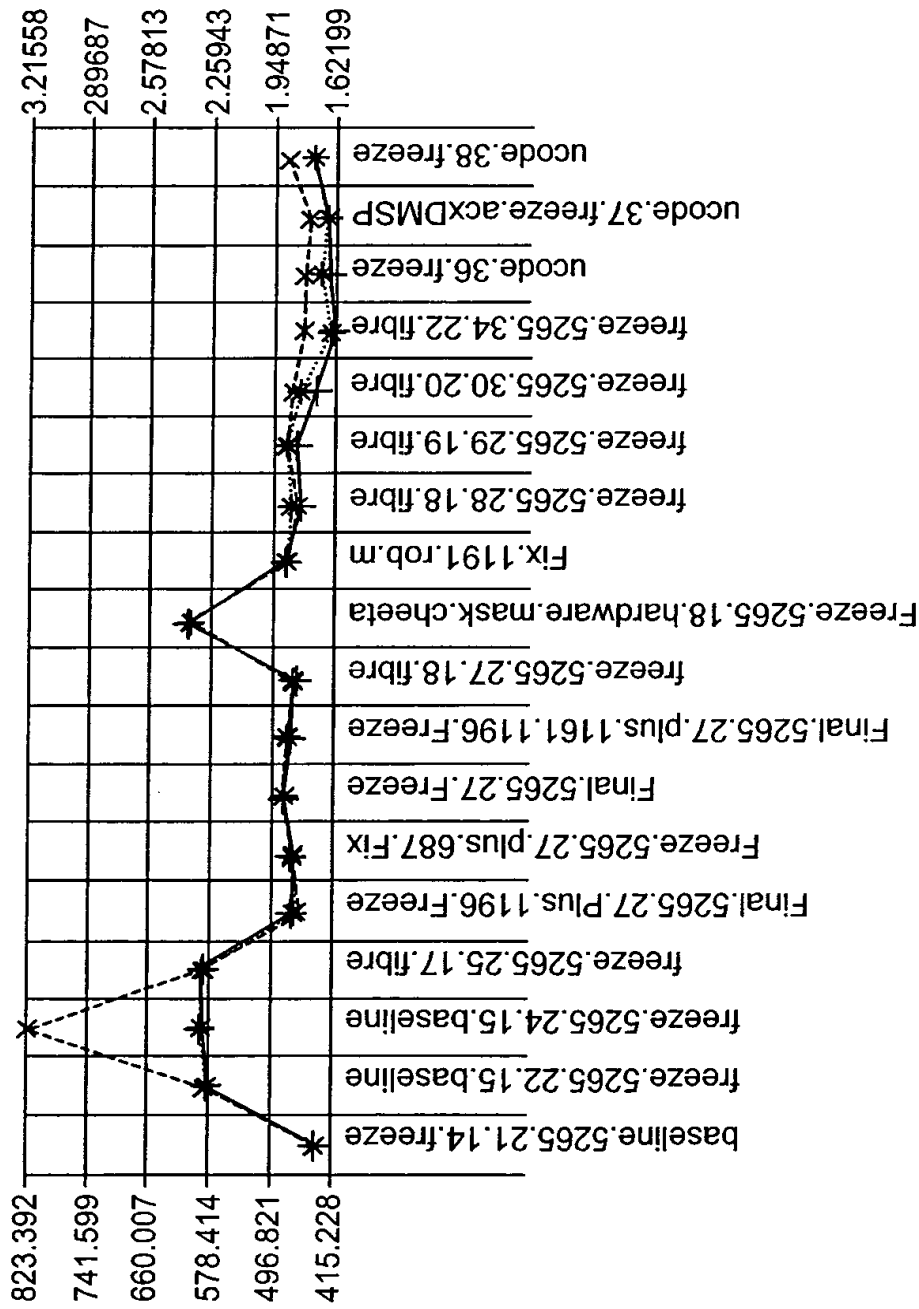
+ 10sps Min
-x- 10sps Max
* MBps Median

BA-4BAProc-8BAPort-8DA-2DAProc-2DAPort-2Drives-24Lun+4Hyper-4

FIG. 8C-2



IOps AND MBps FOR RANDOM DELAYED FAST WRITE - REQ SIZE 4896



+ 10sps Min
x 10sps Max
* MBps Median

BA-4BAProc-8BAPort-8DA-2DAProc-2DAPort-2Drives-24Lun+4Hyper-4

FIG. 8C-3



IOsps AND MBps FOR RANDOM DELAYED FAST WRITE - REQ SIZE 65536

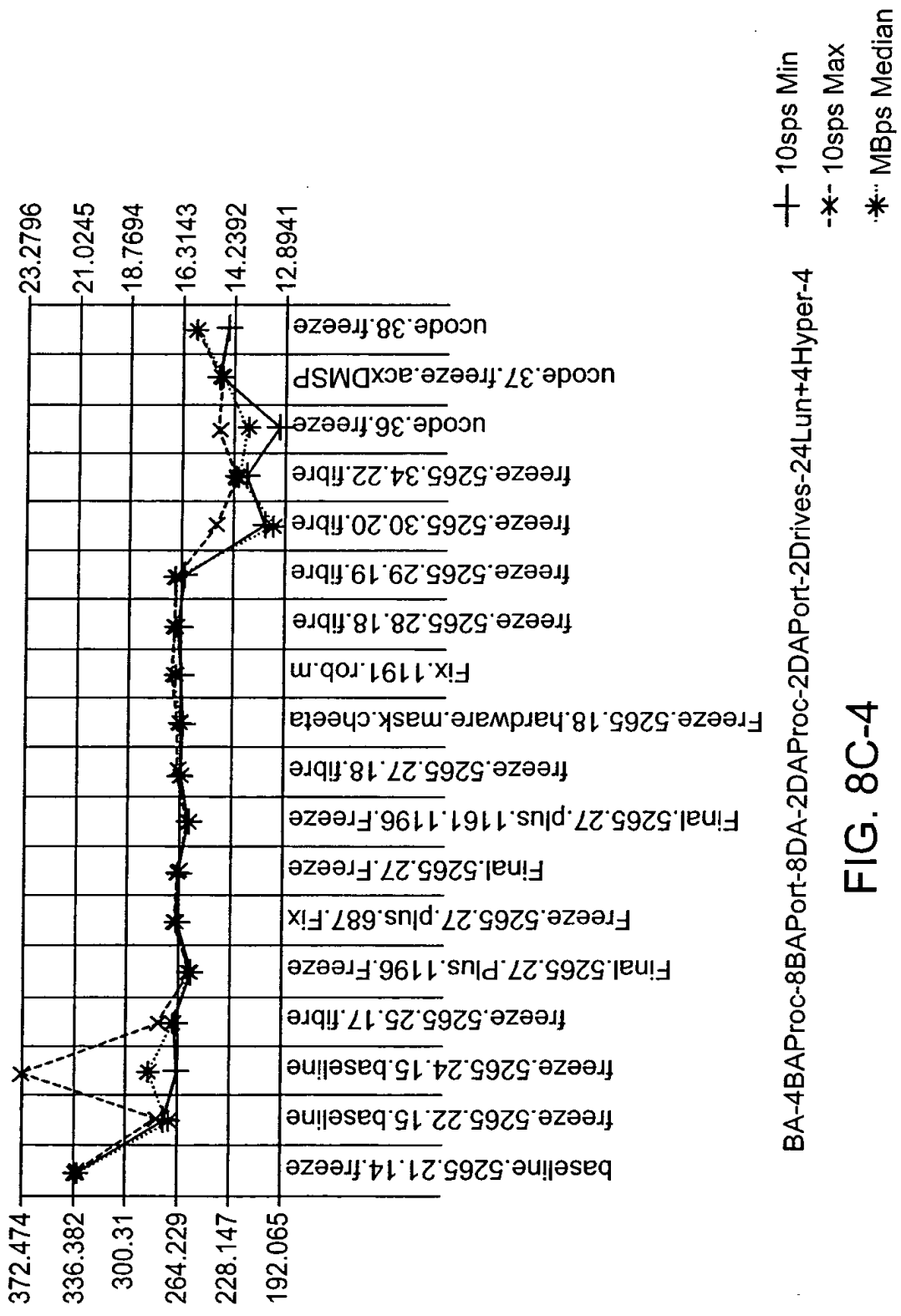
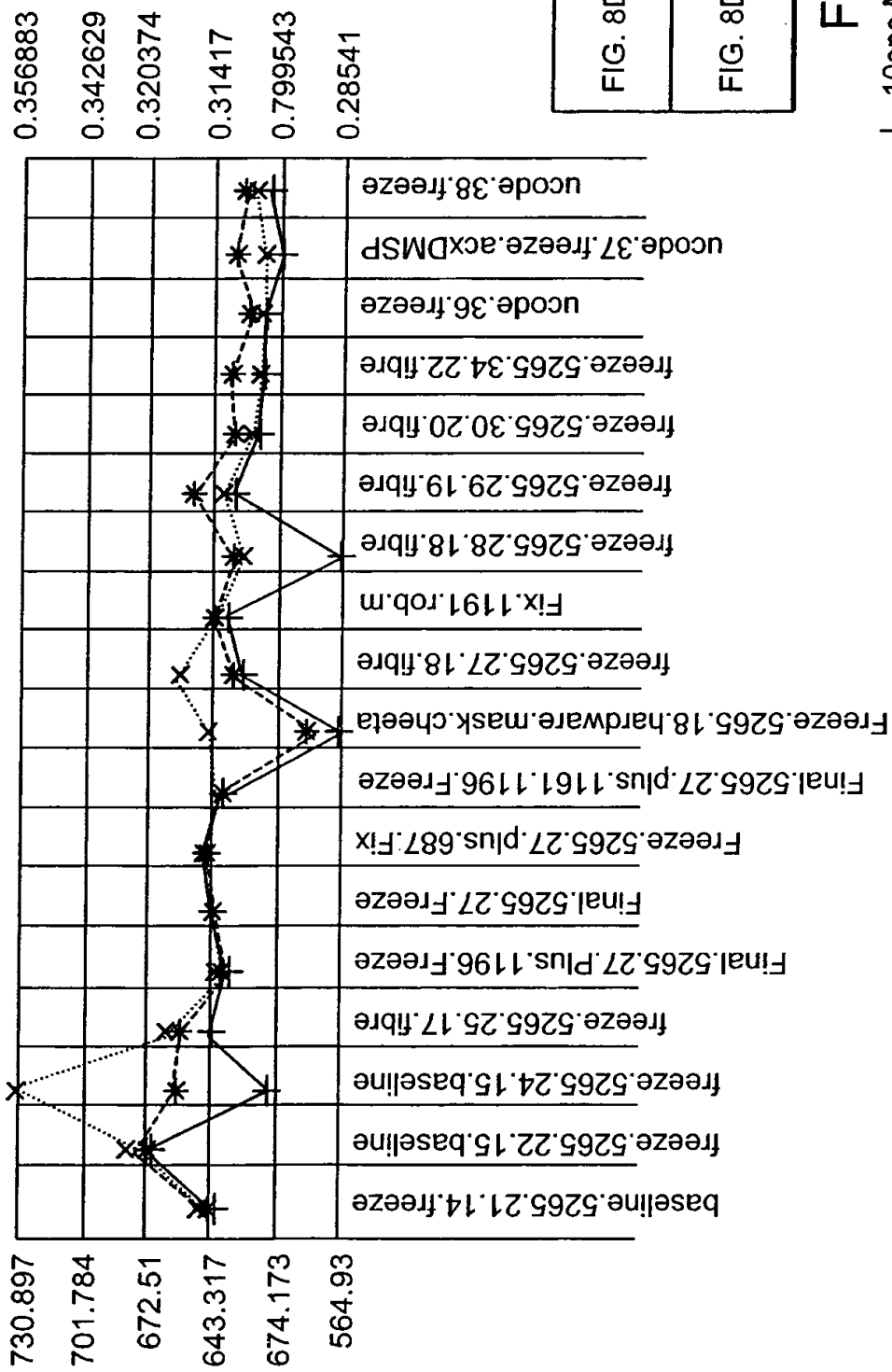


FIG. 8C-4

BA-4BAProc-8BAPort-8DA-2DAProc-2DAPort-2Drives-24Lun+4Hyper-4



IOsps AND MBps FOR RANDOM DELAYED FAST WRITE - REQ SIZE 512



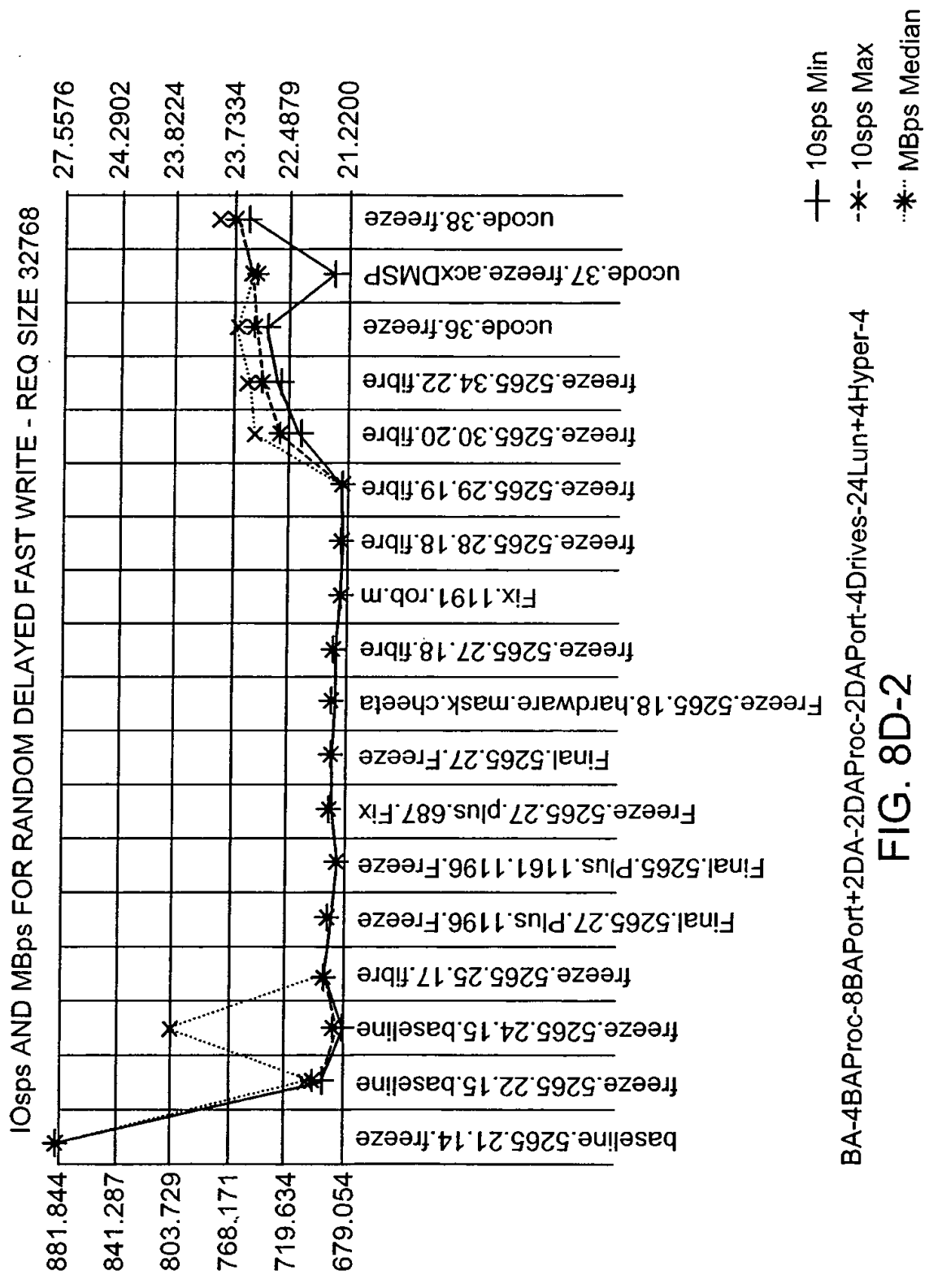
BA-4BAProc-8BAPort+2DA-2DAProc-2DAPort-4Drives-24Lun+4Hyper-4

FIG. 8D-1

FIG. 8D

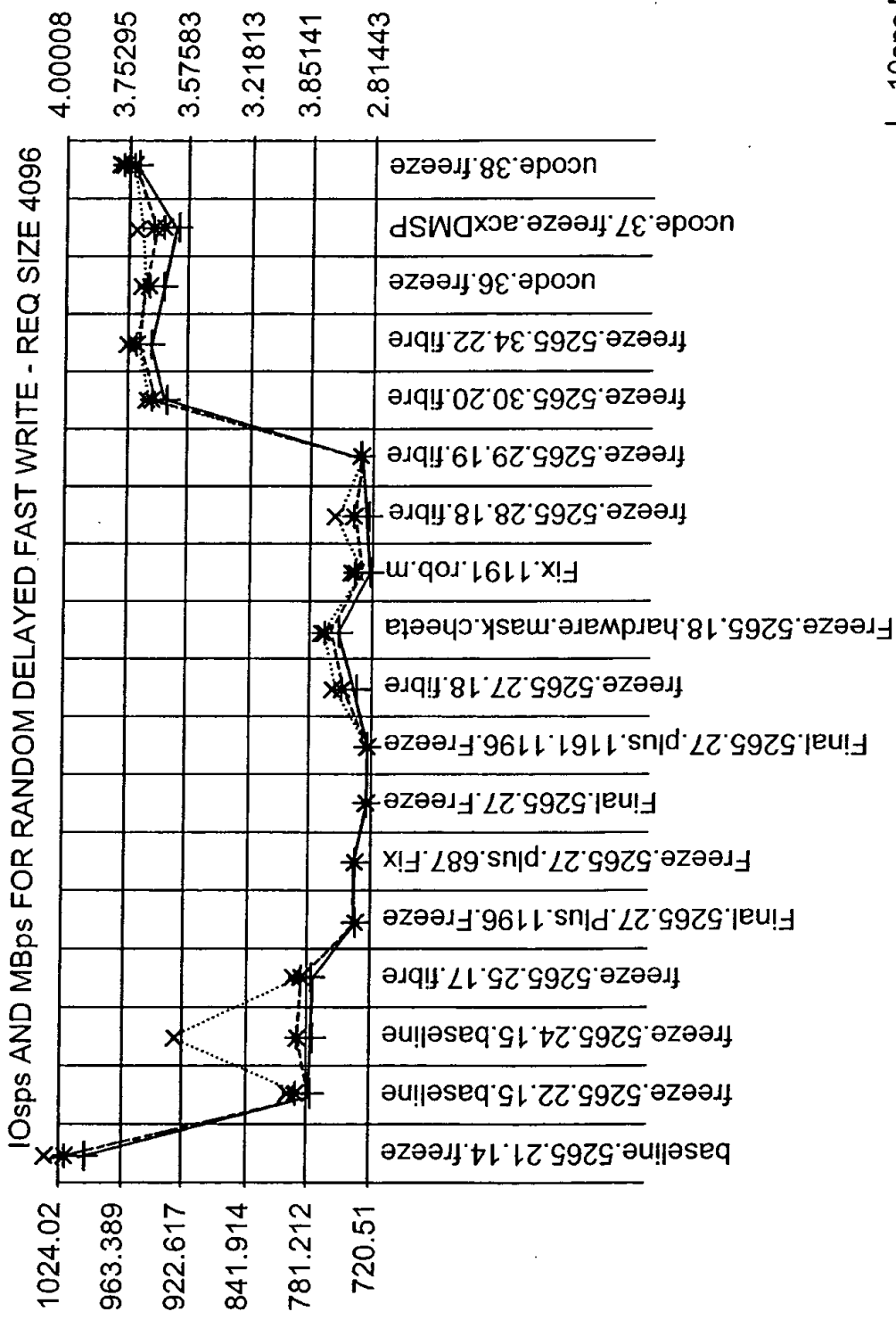
- + 10sps Min
- * 10sps Max
- * MBps Median

FIG. 8D-1	FIG. 8D-2
FIG. 8D-3	FIG. 8D-4



BA-4BAProc-8BAPort+2DA-2DAProc-2DAPort-4Drives-24Lun+4Hyper-4

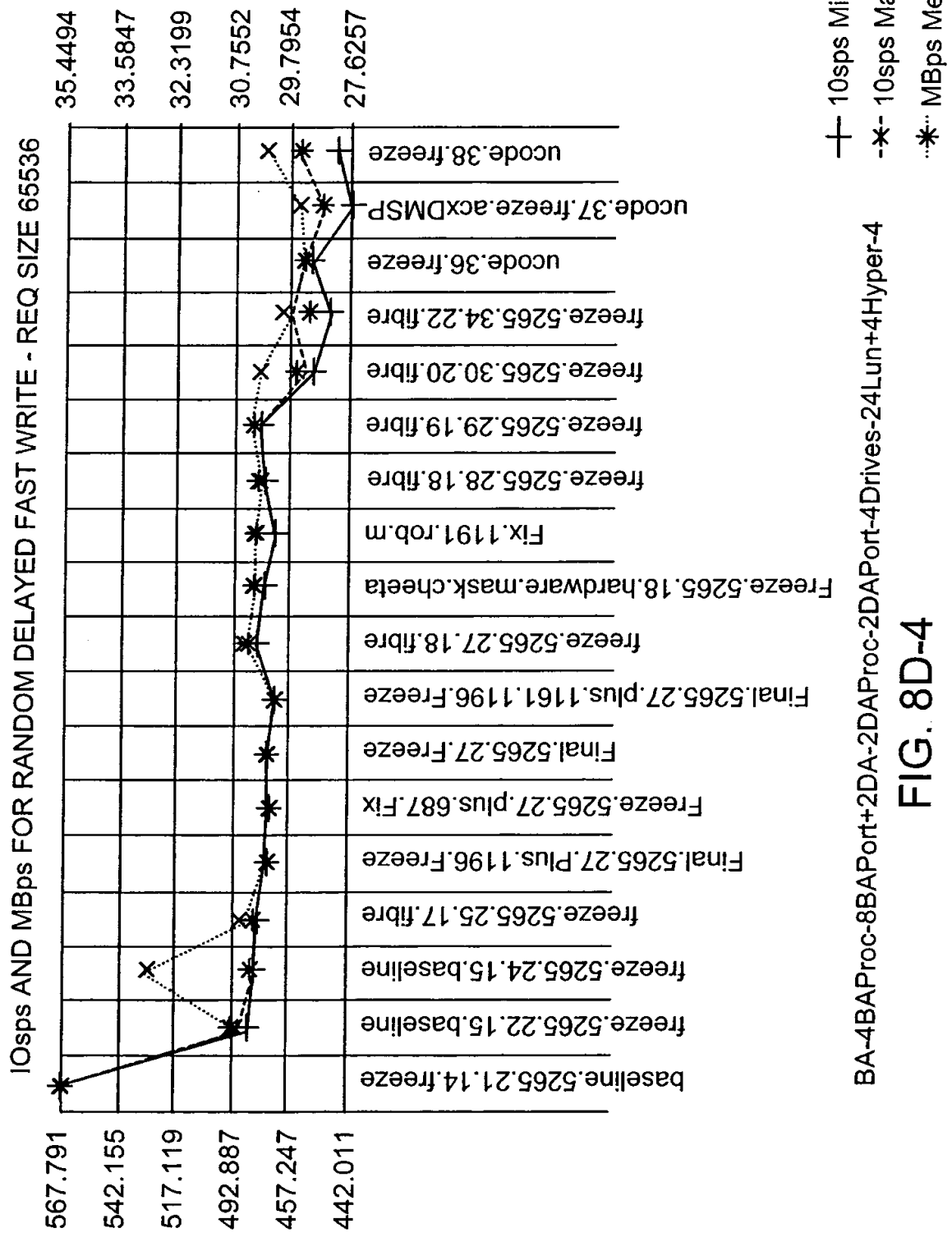
FIG. 8D-2



+ 10sps Min
* 10sps Max
* MBps Median

BA-4BAProc-8BAPort+2DA-2DAProc-2DAPort-4Drives-24Lun+4Hyper-4

FIG. 8D-3



BA-4BAProc-8BAPort+2DA-2DAProc-2DAPort-4Drives-24Lun+4Hyper-4
FIG. 8D-4

POST PROCESSING TAB
THE POST PROCESSING TAB CREATES OBJECTS, PLOT GRAPHS AND GENERATES SUMMARY
FILES USING THE Splus DATA ANALYSIS SOFTWARE.

Emc MarkNT

File Edit Project Log View Help

Project Test Phase Data Transfers Process Raw Data Post-Processing Reporting Database Lead

Post Processing

Characterization

Create Object

Update Object

Plot Graphs

View Graphs

Generate Summary

View Summary

Database Simulator

Create Object

Plot Graphs

View Graphs

Generate Summary

View Summary

Splus

Start SPlus

Close SPlus

View Style

☐ 2 Graphs/Page

☐ 8 Graphs/Page

☒ 12 Graphs/Page

☐ 15 Graphs/Page

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FIG. 9



SYMMETRIX CONFIGURATION VIEW

Emc MarkNT Performance Characterization W

File Actions View Help

Symmetrix Configuration

☒ Physical Device ☐ Symmetrix Device

CPQ01 000183500055

CPQ02 000183500055

Hostname CPQ01

Add Remove Refresh

Emc MarkNT Performance Characterization W

File Actions View Help

Symmetrix Configuration

☒ Physical Device ☐ Symmetrix Device

CPQ02 000183500055

FA-1A

DA-2A

DA-3A

FA-5A

FA-12A

DA-14A

DA-15A

SA-16A

FA-1B

DA-2B

DA-3B

FA-5B

FA-12B

Hostname CPQ01

Add Remove Refresh

Emc MarkNT Performance Characterization W

File Actions View Help

Symmetrix Configuration

☒ Physical Device ☐ Symmetrix Device

DA-2B

DA-3B

FA-5B

FA-12B

DA-14B

DA-15B

SA-16B

PHYSICALDR

PHYSICALDR

PHYSICALDR

PHYSICALDR

PHYSICALDR

PHYSICALDR

Hostname CPQ01

Add Remove Refresh

FIG. 9A



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DEVICE DETAIL

Device Details

Symmetrix

Vendor Id:
EMC

Product Id:
SYMMETRIX

Symmetrix Id:
000183500055

Director:
SA-16B

Port Number:
1

TID:
0

LUN:
0

Hyper Count:
2

Device Detail

Symmetrix Device:
000

Physical Device:
\\.\PHYSICALDRIVE0

Logical Device:

Serial Number:
55000321

Device Status:
Ready

Block Size:
512

Capacity:
7741440

Cylinders:
8064

Emulation:
FBA

Mirror Policy:
two-way mirror

Flags

☐ CKD

☒ META Head

☐ SSOC

☐ META Member

☐ VCM

☐ Gatekeeper

☐ Mixed

☐ PowerPath Parent

☐ PowerPath Child

☐ PowerPath Sibling

☐ No channel

☐ RDF

☐ BCS

☐ BCV

☒ META

OK

FIG. 9B



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SYMMETRIX DETAILS

Symmetrix	
Director Details	
Director:	Num Ports:
Director Type:	Port 0 status:
Director Num:	Port 1 status:
Slot Num:	Port 2 status:
SCIS Width:	Port 3 status:
FA-1A	1
Fibre Adapter	On
1	N/A
1	N/A
N/A	N/A
OK	

FIG. 9C

Emc MarkNT Performance Characterization Workbench

File Actions View Help

Symmetrix Configuration

☒ Physical Device ☐ Symmetrix Device

cpq01

+ 000183500055

Hostname cpq01

Add Remove Refresh

Definition Environment Workload Configuration Benchmark Results Other

Definition

Project

Project Name: Bison.Roland

Test Phase: Full.Box.110199.Test

Test

Description:

Storage Array

Storage Array: Symmetrix ☒ Symmetrix 4.6

Model: 3830 Code: 5265

Serial #: 000183500055 Code Date: 06231999

Details

Raid Type: Auto Hyper Policy: Auto

Mirror Policy: Auto Cache Size: 8GB

Physical Disks: 96 96 Disk Type: Auto

FIG. 9D

NOV 27 2002
PATENT & TRADEMARK OFFICE

ENVIRONMENT TAB

Emc MarkNT Performance Characterization Workbench

File Actions View Help

Symmetrix Configuration

☒ Physical Device ☐ Symmetrix Device

cpq01

..... 000183500055

Hostname

cpq01

Add Remove Refresh

Definition Environment Workload Configuration Benchmark Results

Environment

Master Host Directories

Tools Directory: /bench/EMCtools

Work Directory: /bench/work

Gateway:

Flags

DMSF

☒ Auto ☐ On ☐ Off ☐ Ignore

Flush Cache

☒ IMPL Reset (\$FDCE)

Trace

☒ Ignore ☐ Stop ☐ Clear ☐ CKD

Defaults

Maximum Block Size 128 k

Block Sizes

☒ 512 ☐ 1024 ☐ 2048 ☐ 4096 ☐ 8192 ☐ 16384

FIG. 9E



Emc MarkNT Performance Characterization Workbench

File Actions View Help

Symmetrix Configuration

Physical Device

cpq01

..... 000183500055

Hostname

cpq01

Add Remove Refresh

Definition

Environment

Workload

Configuration

Benchmark

Results

Workload Specification

Workload Execution List

50-50

DSS1

DSS2

OLTP1

OLTP2

OLTP3

OLTP4

PROGRESS

random_0read

random_100read

random_read_100hit

RRH

RRM

sequential

sequential

SR

TERADAT.

Testoltp1

View

New

Edit

Copy

Delete

Start

<< Add

Remove >>

☒ ALL

☐ User

☐ Std

FIG. 9F



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Workload Execution

Workloads: OLTP1

Configuration Rule: 1BA-1Port/Proc

Iterations: 1

☐ Dry ☐ Run

OK Cancel

FIG. 9G



RESPONSE TIME WORKLOAD

Edit Workload

Workload Description

Testoltp1

Delay

1

Cache Slots

15

Max I/O Second

Auto

Max Test Period

210

Min Test Period

0

Segment 1

1

Multiplier

1

LSeeks

0

Start Byte

0

Response Time

Throughput

Bucket Size

30

Segment 2

3

Disk Extent

0

Max Sequential Count

50

Min Sequential Count

50

OK

Cancel

Workload Transaction Definition

Size	%Workload	%Hits	%Random	%Read	Align	Align Back
OMB 4KB 0B	50	0	100	100	OMB 5KB 0B	OMB 0KB
OMB 4KB 0B	30	0	100	0	OMB 3KB 0B	OMB 0KB
OMB 4KB 0B	10	0	0	100	OMB 5KB 0B	OMB 0KB
OMB 4KB 0B	10	0	0	0	OMB 3KB 0B	OMB 0KB

Request Size

0

4

0

MBytes

KBytes

Bytes

Alignment

0

5

0

MBytes

KBytes

Bytes

Back Alignment

0

0

0

MBytes

KBytes

Bytes

Insert

Remove

% of Workload

50

% Cache Miss/Hit

100

0

% Sequential/Random

100

0

% Write/Read

0

100

FIG. 9H



THROUGHPUT WORKLOAD

View Workload

Workload Description

random_100read

Delay

1.0

Cache Slots

0

SPlus Type

RT Size

20000

Duration Time

30

Unfitted

0

RT Multiplier

4

I/O Loops

0

Multiplier

4

LSeeks

0

Start Byte

0

Random Range

0

Response Time

Throughput

Collect Response Times

Report Individual Response Times

Cancel

OK

Workload Transaction Definition

Size	% Workload	% Hits	% Random	% Read	Align	Align Back
0 MB 0KB 0B	100	0	100	100	0 MB 0KB 0B	0 MB 0KB

Request Size

0

MB

0

KB

0

Bytes

Alignment

0

MB

0

KB

0

Bytes

Back Alignment

0

MB

0

KB

0

Bytes

Insert

Remove

% of Workload

100

% Cache Miss/Hit

100

% Sequential/Random

0

% Write/Read

0

Emc MarkNT Performance Characterization Workbench																																																							
File Actions View Help																																																							
<p>Symmetrix Configuration</p> <p><input checked="" type="radio"/> Physical Device <input type="radio"/> Symmetrix Device</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>cpq01</p> <p>+ 000183500055</p> </div>		<p>Hostname</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> cpq01 </div> <div style="margin-top: 10px;"> <input type="button" value="Add"/> <input type="button" value="Remove"/> <input type="button" value="Refresh"/> </div>																																																					
Definition Environment Workload Configuration Benchmark Results Other																																																							
<p>Configuration Rule Definition</p> <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> <h3 style="text-align: center;">All Configuration Rules</h3> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Rule</th> <th style="width: 30%;">P/E Expression</th> <th style="width: 20%;">B/E Expr</th> <th style="width: 20%;"></th> </tr> </thead> <tbody> <tr> <td>1/2Hyper</td> <td>[] []</td> <td>[] [01]</td> <td><input type="button" value="View"/></td> </tr> <tr> <td>1DA_Port</td> <td>[]</td> <td>[] M</td> <td><input type="button" value="New"/></td> </tr> <tr> <td>1Hyper</td> <td>[]</td> <td>[] O:M</td> <td><input type="button" value="Edit"/></td> </tr> <tr> <td>10dd1Evert_BA</td> <td>(01:a:0 01:b:0)</td> <td>[] :M</td> <td><input type="button" value="Copy"/></td> </tr> <tr> <td>2Drives-3/4Hyper</td> <td>[]</td> <td>[] [01]:[]</td> <td><input type="button" value="Delete"/></td> </tr> <tr> <td>2Drives-3Hyper</td> <td>[]</td> <td>[] [01]:[]</td> <td></td> </tr> <tr> <td>2Drives-Not1Hyper</td> <td>[]</td> <td>[] [02]:[]</td> <td></td> </tr> <tr> <td>3/4Hyper</td> <td>[]</td> <td>[] [012]</td> <td></td> </tr> <tr> <td>3Drives</td> <td>[]</td> <td>[] [012]</td> <td></td> </tr> <tr> <td>3Drives-1/2Hyper</td> <td>[]</td> <td>[] [012]</td> <td></td> </tr> <tr> <td>3Drives-2Hyper</td> <td>[]</td> <td>[] [012]</td> <td></td> </tr> <tr> <td>3Drives-3/4Hyper</td> <td>[]</td> <td>[] [012]</td> <td></td> </tr> </tbody> </table> </div>				Rule	P/E Expression	B/E Expr		1/2Hyper	[] []	[] [01]	<input type="button" value="View"/>	1DA_Port	[]	[] M	<input type="button" value="New"/>	1Hyper	[]	[] O:M	<input type="button" value="Edit"/>	10dd1Evert_BA	(01:a:0 01:b:0)	[] :M	<input type="button" value="Copy"/>	2Drives-3/4Hyper	[]	[] [01]:[]	<input type="button" value="Delete"/>	2Drives-3Hyper	[]	[] [01]:[]		2Drives-Not1Hyper	[]	[] [02]:[]		3/4Hyper	[]	[] [012]		3Drives	[]	[] [012]		3Drives-1/2Hyper	[]	[] [012]		3Drives-2Hyper	[]	[] [012]		3Drives-3/4Hyper	[]	[] [012]	
Rule	P/E Expression	B/E Expr																																																					
1/2Hyper	[] []	[] [01]	<input type="button" value="View"/>																																																				
1DA_Port	[]	[] M	<input type="button" value="New"/>																																																				
1Hyper	[]	[] O:M	<input type="button" value="Edit"/>																																																				
10dd1Evert_BA	(01:a:0 01:b:0)	[] :M	<input type="button" value="Copy"/>																																																				
2Drives-3/4Hyper	[]	[] [01]:[]	<input type="button" value="Delete"/>																																																				
2Drives-3Hyper	[]	[] [01]:[]																																																					
2Drives-Not1Hyper	[]	[] [02]:[]																																																					
3/4Hyper	[]	[] [012]																																																					
3Drives	[]	[] [012]																																																					
3Drives-1/2Hyper	[]	[] [012]																																																					
3Drives-2Hyper	[]	[] [012]																																																					
3Drives-3/4Hyper	[]	[] [012]																																																					



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Configuration Definition

Rule Name:

Rule Definition

F/E Expression: B/E Expression:
~Expression not yet Defined

F/E Expression:

B/E Expression:

Front-End

☒ FA-01:a:0 ☒ SA-16:a:0
☒ FA-05:a:0 ☒ SA-16:a:1
☒ FA-12:a:0 ☒ FA-01:a:0

Back-End

☒ DA-02:a:C ☒ DA-15:a:C
☒ DA-03:a:C ☒ DA-02:a:C
☒ DA-14:a:C ☒ DA-03:a:C

Expressions

Max I/O Second:

Mirrors

☒ M1 ☐ M2

TIDs

☒ 0 ☐ 1

LUNs

☒ 0 ☒ 1 ☐ 2 ☐ 3

FIG. 9K



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Emc MarkNT Performance Characterization Workbench

File Actions View Help

Symmetrix Configuration

☒ Physical Device

☐ Symmetrix Device

cpq01

..... 000183500055

Hostname

cpq01

Add Remove Refresh

Definition Environment Workload Configuration Benchmark Results

Benchmark Definition

Benchmark Execution List

Remove >>

<< Add

All Benchmarks

Profiling Regression

View New Edit Copy Delete

Start

FIG. 9L



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Benchmark Execution

☐ Benchmark

☐ Regression

Iterations:

☐ Dry Run

FIG. 9M



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FIG. 9N

View Benchmark

Benchmark Name: Regression

Benchmark Workload Definition

Workload	Configuration Rule	Delay Milliseconds	Cache Slots	Max IOPs
RRM	1Hyper	-1	-1	
RRM	Everything	-1	-1	
OLTP1	Everything	-1	-1	
OLTP2	3Hypers/4Drives	-1	-1	
OLTP3	1Hyper/2Drives	-1	-1	
DSS1	1Hyper	-1	-1	
DSS2	Everything	-1	-1	
TERADATA	2Drives/DA-3Hyper/4Drives	-1	-1	

Configuration Parameters:

Delay	<input type="text" value="0"/>	Cache Slots	<input type="text" value="0"/>	Max I/O Second	<input type="text" value="0"/>	Bucket Size	<input type="text" value="0"/>	Max Sequential Count	<input type="text" value="50"/>
Max Test Period	<input type="text" value="0"/>	Min Test Period	<input type="text" value="0"/>	Segment 1	<input type="text" value="0"/>	Segment 2	<input type="text" value="0"/>	Min Sequential Count	<input type="text" value="50"/>
Multiplier	<input type="text" value="0"/>	LSseeks	<input type="text" value="0"/>	Start Byte	<input type="text" value="0"/>	Disk Extent	<input type="text" value="0"/>		
Workload	<input type="text" value="RRM"/>	Configuration Rule	<input type="text" value="1 Hyper"/>					<input type="button" value="Insert"/>	<input type="button" value="Remove"/>



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Emc MarkNT Performance Characterization Workbench

File Actions View Help

Symmetrix Configuration

Physical Device

cpq01

..... 000183500055

Hostname

cpq01

Add

Remove

Refresh

Definition

Environment

Workload

Configuration

Benchmark

Results

Results Display

Reports

☒ Runtime

☐ Nohup

☐ Exceptions

☐ DB Summary

View

FIG. 90

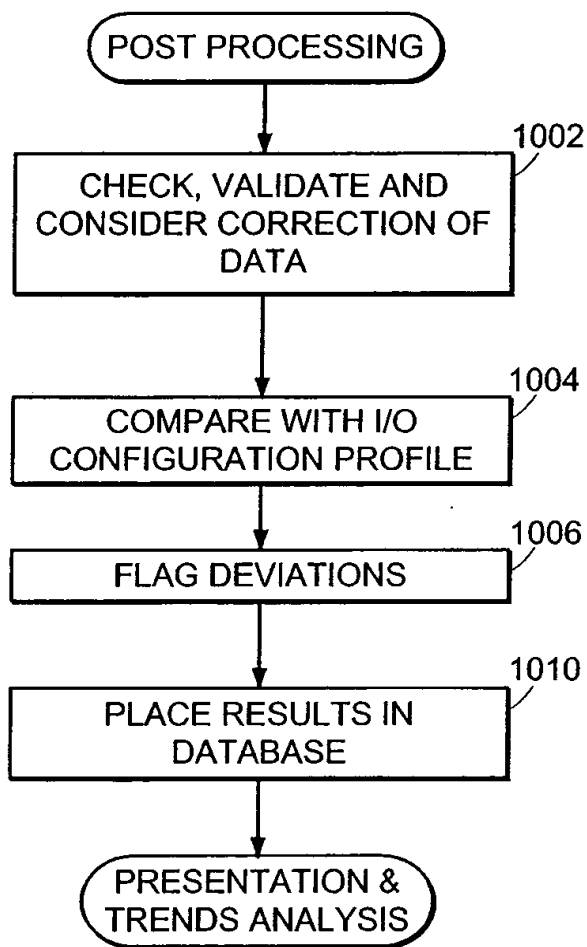


FIG. 10

Advanced Database Simulator Summary

Table Variables

Row: config

Column: req size

Configuration: test type

Test Description: none

Summary Functions

IO Function: max

MB Function: max

OK Cancel

FIG. 10A

Advanced Database Simulator Summary

Table Variables

Row: test type

Configuration: config

Column: interval

Summary Functions

IO Function: max

MB Function: min

OK Cancel

FIG. 10B

FIG. 11A

FIG. 11B

FIG. 11



FILE DESCRIPTIONS

FILE NAME	DESCRIPTION	HIGHLIGHTS
Char.Summary	SUMMARY FILE OF EACH CHARACTERIZATION TEST BROKEN DOWN BY ITERATION, TEST TYPE, AND CONFIGURATION	
Char.Splush	DATA FILE FEED TO Splush TO CREATE CHARACTERIZATION OBJECTS	
Char.Errors	CHARACTERIZATION ERRORS PRODUCED FROM PROCESSING THE RAW DATA FILES.	MESSAGE APPEARS IF ERROR FILE EXISTS
SX.Summary	SX SUMMARY DATA BROKEN DOWN BY ITERATION, TEST TYPE AND CONFIGURATION	
SX.Splush	DATA FILE FEED TO Splush: USED WITH Char.Summary FILE TO CREATE CHARACTERIZATION OBJECTS	
SX.Errors	SX ERRORS FROM PROCESSING THE RAW DATA FILES	MESSAGE APPEARS IF ERROR FILE EXISTS

FIG. 11A



DB.Table	SUMMARY FILE OF EACH DB SIMULATOR TEST BROKEN DOWN BY ITERATION, TEST TYPE AND CONFIGURATION	
DB.Splus	DATA FILE FEED TO Splus TO CREATE DBSimulator OBJECTS	
DB.Errors	DB SIMULATOR ERRORS PRODUCED FROM PROCESSING THE RAW DATA FILES	MESSAGE APPEARS IF ERROR FILE EXISTS
SX_DB.Summary	SX DB SUMMARY DATA BROKEN DOWN BY ITERATION, TEST TYPE AND CONFIGURATION	
SX_DB.Splus	DATA FILE FEED TO Splus. USED WITH DB.Splus FILE TO CREATE DBSimulator OBJECTS	
SX_DB.Errors	SX_DB ERRORS PRODUCED FROM PROCESSING THE RAW DATA FILES	MESSAGE APPEARS IF ERROR FILE EXISTS
Cache Ratio Report	REPORT TRACKING THE CACHE RATIO FROM THE SYM AND THE PROCESSED DATA	REPORT NAME: "CacheRatioReport.txt" LOCATED IN THE RAW DATA FOLDER MESSAGE APPEARS IF A REPORT

FIG. 11B



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Emc MarkNT

File Edit Project Log View Help

Project Test Phase Data Transfers Process Raw Data Post-Processing Reporting Database Charts

Database F:\TestArea\Regression.5266.Overnught\Database\symm48.5265

Test Type Random Delayed Fast Write

Characterization

Req size:	512	LUNs:	1
Hypers:	1	Drives:	2
BAs:	1	DAs:	2
BA Procs:	1	DA Procs:	2
BA Ports:	1	DA Ports:	2

1200

1202

1204

1206

1208

6/8/99 4:08PM

FIG. 12